



Product Evaluation

WIN2047 | 1215

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: WIN-2047

Effective Date: December 1, 2015

Re-evaluation Date: August 2018

Product Name: PW-5540 Vinyl Fixed Casement Windows, Fin-Mounted and Replacement, Individual, Impact Resistant

Manufacturer: PGT Industries
1070 Technology Drive
North Venice, FL 34275
(941) 486-0100 (Ext. 21142)

General Description:

System	Description	Label Rating	Design Pressure Rating
1	PW-5540 Vinyl Fixed Casement Windows, fin-mounted, with a 1" nominal insulated glass lite composed of one 3/16" annealed or tempered glass section on the exterior and one 7/16" laminated glass section on the interior (O)	CW-PG70 96 X 63-FW Missile Level D	+70 / -70 psf
2	PW-5540 Vinyl Fixed Casement Windows, replacement, with a 1" nominal insulated glass lite composed of one 3/16" annealed or tempered glass section on the exterior and one 7/16" laminated glass section on the interior (O)	CW-PG70 84 X 72-FW Missile Level D	+70 / -70 psf

General Description (continued):

System	Description	Label Rating	Design Pressure Rating
3	PW-5540 Vinyl Fixed Casement Windows, replacement, with a 1" nominal insulated glass lite composed of one 3/16" annealed or tempered glass section on the exterior and one 7/16" laminated glass section on the interior (O)	CW-PG70 84 X 54-FW Missile Level D	+70 / -70 psf
4	PW-5540 Vinyl Fixed Casement Windows, replacement, with a 1" nominal insulated glass lite composed of one 3/16" annealed glass section on the exterior and one 7/16" laminated glass section on the interior (O)	CW-PG65 84 X 54-FW Missile Level D	+65/ -65 psf
5	PW-5540 Vinyl Fixed Casement Windows, replacement, with a 7/8" nominal insulated glass lite composed of one 3/16" annealed or tempered glass section on the exterior and one 5/16" laminated glass section on the interior (O)	CW-PG50 75 X 48-FW Missile Level D	+50 / -50 psf
6	PW-5540 Vinyl Fixed Casement Windows, replacement, with a 7/8" nominal insulated glass lite composed of one 1/8" annealed or tempered glass section on the exterior and one 5/16" laminated glass section on the interior (O)	CW-PG50 36 X 72-FW Missile Level D	+50 / -50 psf

Product Dimensions:

System	Overall Size	Daylight Opening Size
1	98-3/4" x 65-3/4"	91-11/16" x 58-11/16"
2	84" x 72"	79-11/16" x 67-11/16"
3	84" x 54"	79-11/16" x 49-11/16"
4	84" x 54"	79-11/16" x 49-11/16"
5	75" x 48-1/4"	70-11/16" x 43-11/16"
6	36" x 72"	31-11/16" x 67-11/16"

Product Identification (Certification Label on Window):

System		
1 - 6	Certification Agency	Keystone Certifications, Inc.
	Manufacturer's Name or Code Name	System 1: CAR # 190-283, 190-1020 System 2: CAR # 190-279, 190-1012 System 3: CAR # 190-284, 190-1019 System 4: CAR # 190-281, 190-1019 System 5: CAR # 190-280, 190-1013 System 6: CAR # 190-282, 190-1014
	Product Name	System 1: Model 5520/5540 PVC Imp Fin Fixed Systems 2 - 6: Model 5520/5540 PVC Imp Fixed
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E 1886-05/ASTM E 1996-12 Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1 - 6	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the assemblies' design pressure rating.

Installation:

System		
1 (FIN)	Type of Installation	Wood Frame
	Wall Framing	Southern Pine (SPG \geq 0.55) Dimension lumber
	Fasteners	Minimum 8d Common Ring-Shank Nails (2-1/2" long, 0.131" diameter)
	Fastener Penetration	Minimum 1-7/16" into the wall framing
2 - 6 (FINLESS)	Type of Installation	Wood Frame
	Wall Framing	Southern Pine (SPG \geq 0.55) Dimension lumber
	Fasteners	Minimum No. 10 x 1-3/4" Phillips Head, 18-8 or 410 Stainless Steel Sheet Metal Screws or Minimum No. 12 x 1-3/4" Phillips Head, 18-8 or 410 Stainless Steel Sheet Metal Screws
	Fastener Penetration	Minimum 1-1/2" into the wall framing

Supplemental Installation Instructions:

- **Design Drawing:** Install the windows in accordance with Drawing No. TDI-PW5540.1, titled “Vinyl Fixed Window TDI (Impact-Resistant),” sheets 1 through 4 of 4, dated March 18, 2015, signed and sealed by A. Lynn Miller, P.E., on March 18, 2015. This evaluation report refers to the stated drawings as the approved drawings.

Note: Keep the manufacturer’s installation drawings available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.